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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,455	11/20/2003	Takashi Takahashi	R2184.0271/P271	6664	
24998	24998 7590 12/21/2004			EXAMINER	
	N SHAPIRO MORIN	KANG, DONGHEE			
	2101 L Street, NW Washington, DC 20037			PAPER NUMBER	
			2811		
			DATE MAILED: 12/21/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/716,455	TAKAHASHI ET AL.				
		Examiner	Art Unit				
		Donghee Kang	2811				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we reto reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status							
1)⊠ 2a)□ 3)□	This action is FINAL. 2b) This action is non-final.						
Disposit	ion of Claims						
5)⊠ 6)□ 7)□	 4) Claim(s) 1-85 is/are pending in the application. 4a) Of the above claim(s) 4,5,7,9,11 and 13-85 is/are withdrawn from consideration. 5) Claim(s) 1-3,6,8,10 and 12 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicat	ion Papers						
 9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 20 November 2003 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority (under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) Notice 3) Infor	at(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 03/19/0 & 03/26/04.	Paper No(s)/M	mary (PTO-413) ail Date mal Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. Claim1 is allowable linking claim. Accordingly, the restriction requirement as to the encompassed species is hereby withdrawn and claims 6, 8, 10 & 12 are no longer withdrawn from consideration since all of the claims to this species depend from or otherwise include each of the limitations of an allowed generic claim.

This application is in condition for allowance except for the presence of claims 4-5, 7, 9, 11 & 13-85 an invention non-elected with traverse in the reply filed on 11-08-04. Applicant is given TWO MONTH or SIXTY DAYS from the date of this letter, whichever is longer, to cancel the noted claims or take other appropriate action (37 CFR 1.144). Failure to take action during this period will be treated as authorization to cancel the noted claims by Examiner's Amendment and pass the case to issue. Extensions of time under 37 CFR 1.136(a) will not be permitted since this application will be passed to issue.

The prosecution of this case is closed except for consideration of the above matter.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. Acknowledgment is made of receipt of applicant's Information Disclosure Statement (PTO-1449) field March 19 & 26, 2004.

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Allowable Subject Matter

4. Claims 1-3, 6, 8, 10 & 12 are allowed.

The following is an examiner's statement of reasons for allowance:

US 6,798,809 and US 2003/0013224 appears to be the closest prior art reference. However, these reference fail to teach that a nitrogen composition of barrier layer is smaller than that of said quantum well active layer.

Conclusion

5. This application is in condition for allowance except for the above formal matters:

Prosecution on the merits is closed in accordance with the practice under *Ex*parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 571-272-1656. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donghee Kang, Ph.D. Primary Examiner

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